

STEVEN L. BESHEAR GOVERNOR

PUBLIC PROTECTION CABINET DEPARTMENT OF HOUSING, BUILDINGS AND CONSTRUCTION DIVISION OF BUILDING CODE ENFORCEMENT

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M E M O R A N D U M

TO: Fire Sprinkler System Contractors & All Users of the Kentucky Building Code (KBC)

FROM: George E. Mann, Director

DHBC/ Division of Building Code Enforcement

DATE: April 5, 2011

SUBJECT: Fire Suppression System Design Requirements

(KRS 198B.550 to KRS 198B.630)

This memorandum replaces previous correspondence from the Office regarding KRS 198B.550 to 198.630 as it relates to fire protection sprinkler systems and to clarify the necessary procedures for submitting the Fire Suppression Design Criteria and fire protection system shop drawings. The fire protection system shop drawings shall be submitted to the state or local building official having jurisdiction and must adhere to the following:

I. The fire suppression design criteria form shall be submitted with the initial set of architectural plans. The design criteria shall be signed and sealed by a professional engineer registered in the Commonwealth of Kentucky or by a KY licensed certificate holder (who is NICET certified at Level III or IV) of a licensed fire protection contractor. Ref. KRS 198B.565 (1)

Minimum Information Required in Fire Suppression Design Criteria:

- 1. Available water flow (gpm), static and residual water pressure (psi).
- 2. Source of water supply and duration it is available.
- 3. Source of water flow data (person that conducted test) including date and time of test.
- 4. Anticipated water flow demand.
- 5. State the specific classification of the hazard(s).
- 6. The occupancy or use of the building.
- 7. Specify the type of fire protection system(s).
- 8. State the specific NFPA standard(s) to be followed.

Note: For your convenience a form is attached for you to submit the above information.



Fire Suppression System Design Requirements

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- II. Contractor's shop drawings shall be submitted with all of the technical information to show conformance with the specific NFPA standard(s) and the Kentucky Building Code prior to installation of the system; and
 - 1. If a professional engineer has submitted the fire suppression design criteria, then the shop drawings shall be submitted through the professional engineer for his approval and then forwarded to the authority having jurisdiction. Ref. KRS 198B.565(2).
 - 2. If the licensed contractor submitted the design criteria, then the shop drawings shall be submitted directly to the authority having jurisdiction. All drawings shall bear the seals and signature of the licensed certificate holder and the licensed fire protection contractor. Ref. KRS 198B.565(2)(3).
 - 3. All drawings shall bear the seal and signature of the certificate holder of the licensed contractor or a professional engineer and the seal of the licensed contractor. Ref. KRS 198B.585(2).
- III. A licensed plumbing contractor may make the installation where there are ten- (10) sprinklers or less in a building or structure served by a domestic water supply, provided the plans have been approved by the authority having jurisdiction and contain the following information:
 - 1. A riser diagram showing the source of the water supply, pipe size and arrangement (must comply with NFPA 13 for hydraulic calculations).
 - 2. Type and size of sprinklers.
 - 3. Two- (2) check valves or a double backflow prevention device installed between the system and the water supply. Ref. KRS 198B.560(4).

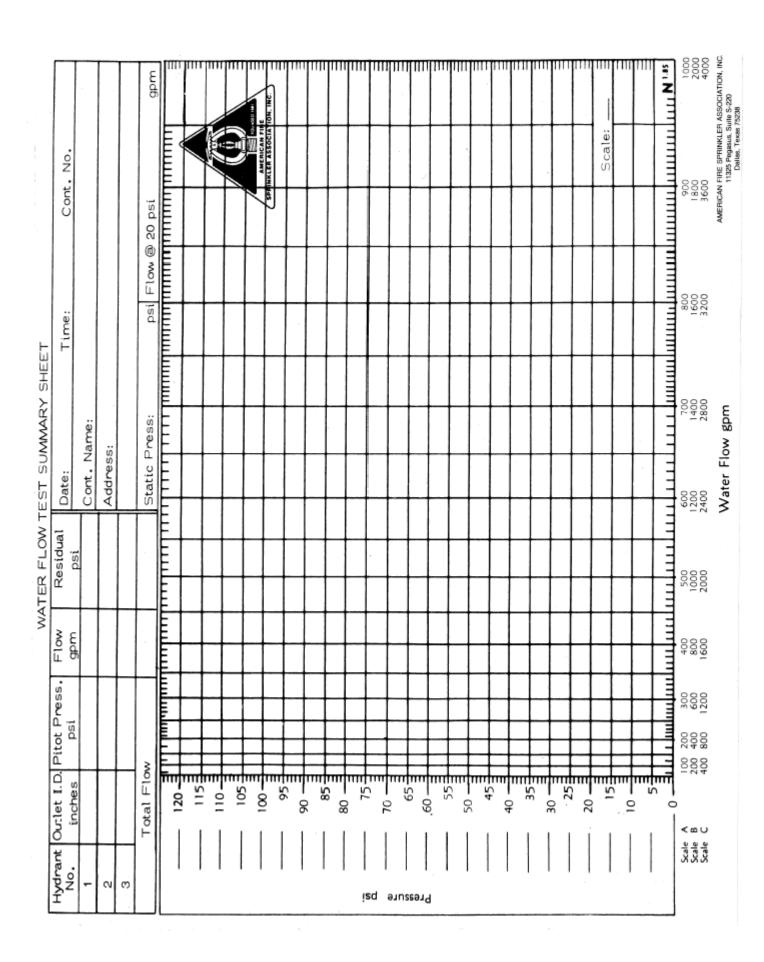
Should there be any questions, please feel free to call upon us.

KENTUCKY DHBC/ BCE FIRE SUPPRESSION DESIGN CRITERIA WORKSHEET

FLOW TEST INFORMATION SHEET

1. Reaso	on for Test: Bid Inf	_	Design Ba	_	SPAIR	AMERICAN FIRE
2. Locati	on of Property					
					(City) (State)	(County)
	& Time of Test:		Time: _	(a	ım) (pm)	
	Conducted by:			Title		Affiliation
5. Test V	Vitnessed by:	9 —		Title		Affiliation
	e of Water Supply:					
	of Water District				ict	
	er supply provided					
(If so	what is PRV outlet	setting?	PSI	G		
J. Aleu	Map: (Draw Sketch sh and identification floors or grade, a	numbers, dista	nces from hydra	nts to property	elevations of hydra	nts and property
94	un I					
				-		
10. Flow	Test Data					
FLOW A		STATIC PSIG	RESIDUAL PSIG	FLOW GPM	OUTLET COEFFICIENT	ADJUSTED GPM
11. See	reverse side for gra	ph			2	
12. Sign	ed					
Witn	ess					
American Fire Spr 11325 Pega Dallas, 1	n No. 102 inkler Association, Inc. sus, Suite S-220 Texas 75238 349-9966			utlet Square and ting into Barrel Coef. 0.70	Outlet Square and Sharp Coef. 0.80	Outlet Smooth and Rounded Ober. 0.90

KENTUCKY DHBC/ BCE FIRE SUPPRESSION DESIGN CRITERIA WORKSHEET



	CASE NUMBER 1:	DATE:
	PROJECT OR FACILITY NAME:	
	STREET ADDRESS:	
	CITY:	COUNTY:
	WATER FLOW INFORMATION: (See work she	
	STATIC:	PSI
	RESIDUAL:	
	WATER FLOW:	GPM
	DURATION: 2	
	SOURCE OF WATER SUPPLY: 3	
	SOURCE OF WATER FLOW DATA: 4	
	DATE AND TIME OF WATER FLOW TEST:	5
	ANTICIPATED WATER DEMAND: 6	
	ANTICIFATED WATER DEMAND.	
	OLA COLFIGATION OF HAZARROY. 7	GPM
	CLASSIFICATION OF HAZARD(S): 7	
	8	
	OCCUPANCY OF BUILDING: 8	
	SPECIFIC TYPES OF SUPPRESSION SYS	TEM(S):
	NFPA STANDARD(S) FOLLOWED IN DESI	GN: ⁹
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